

CLAIMS

- 1 1. An impact absorption device comprising:
2 a cylindrically shaped impact absorption member formed of an extruded
3 material, said member having opposing ends and an exterior wall that defines an
4 interior volume, said exterior wall including a flanged portion that extends radially
5 outwardly from said exterior wall;
6 a bracket removably secured to said flanged portion; and
7 a mounting member disposed on said bracket for mounting the impact
8 absorption device to an object to be protected from direct impact.

- 1 2. The device of claim 1 wherein the flanged portion extends to at least
2 one of said opposing ends.

- 1 3. The device of claim 1 wherein the exterior wall of the absorption
2 member includes a plurality of elongated lobes operative to reduce surface friction
3 upon impact with the device.

- 1 4. The device of claim 1 wherein said interior volume is filled with an
2 impact absorbent material.

1 5. The device of claim 4 wherein the impact absorbent material is formed
2 of polyurethane.

1 6. The device of claim 1 wherein said interior volume is lattice
2 structured.

1 7. The device of claim 1 wherein said bracket is adapted to be removably
2 secured to a plurality of impact absorption members.

1 8. The device of claim 1 wherein said flanged portion includes a planar
2 ridge and sidewalls, said planar ridge having spaced apart notches formed
3 substantially perpendicular to a longitudinal axis of said impact absorption member
4 and wherein said sidewalls have spaced apart apertures formed therein substantially
5 perpendicular to said longitudinal axis.

1 9. The device of claim 1 wherein said mounting member attaches to the
2 object at an end having an indentation that is complementary to a surface of the
3 object.

1 10. An impact absorption device comprising:
2 a preformed impact absorption member having opposing ends;

3 a sleeve having opposing ends and formed of an extruded material
4 dimensioned to cover said absorption member;
5 a flange removably secured to a portion of said sleeve; and
6 a mounting member disposed on said flange portion for mounting the impact
7 absorption device to an object to be protected from direct impact.

1 11. The device of claim 10 wherein said flange is formed of two
2 substantially symmetrical halves.

1 12. The device of claim 10 wherein said impact absorption member is
2 formed of polyurethane.

1 13. The device of claim 10 wherein said opposing ends of said impact
2 absorption member are dumbbell shaped and cover said opposing ends of said sleeve.

1 14. The device of claim 10 wherein the impact absorption member
2 includes an interior volume filled with compressed air.

1 15. An impact absorption device comprising:

2 a sleeve having opposing ends and formed of an extruded material
3 dimensioned to cover an impact absorption member and wherein said sleeve includes
4 capped ends;

5 a flange removably secured to a portion of said sleeve; and

6 a mounting member disposed on said flange for mounting the impact
7 absorption device to an object to be protected from direct impact.

1 16. The device of claim 15 wherein said sleeve is filled with an impact
2 absorption material.

1 17. The device of claim 16 wherein said impact absorption material is
2 polyurethane.

1 18. An impact absorption device comprising:

2 a cylindrically shaped impact absorption member formed of an extruded
3 material, said member having opposing ends and an exterior wall that defines a lattice
4 structured interior volume, said exterior wall including a flanged portion that extends
5 radially outwardly from said exterior wall;

6 a bracket removably secured to said flanged portion; and

7 a mounting member disposed on said bracket for mounting the impact
8 absorption device to an object to be protected from direct impact.

9 19. The device of claim 18 wherein said flanged portion extends to at least
10 one of said ends.

1 20. An impact absorption device comprising:
2 an impact absorption member formed of an extruded material
3 having an exterior wall that defines an interior volume, said member having at least
4 one open end, said exterior wall of said member including at least two fastening lobes
5 having throughholes for receiving fasteners;
6 a flanged bracket formed with fastening tabs adapted to align with said
7 throughholes and to receive said fasteners for attaching said flanged bracket to said
8 impact absorption member; and
9 a mounting member disposed on said flanged bracket for mounting
10 the impact absorption device to an object to be protected from direct impact.